

Please type a plus sign (+) inside this box → ☒

PTO/SB/05 (08-00)
 Approved for use through 10/31/2002. OMB 0651-0032
 U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE
 Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

UTILITY PATENT APPLICATION TRANSMITTAL		Attorney Docket No. 55197-00016USPT																																					
First Inventor Michael J. Puglia		Title Mixing in Microfluidic Devices																																					
<i>(Only for new nonprovisional applications under 37 CFR 1.53(b))</i>		Express Mail Label No. EL831842365US, filed August 19, 2003																																					
APPLICATION ELEMENTS See MPEP chapter 600 concerning utility patent application contents.		ADDRESS TO: Commissioner for Patents Box Patent Application Washington, DC 20231																																					
1. <input checked="" type="checkbox"/> Fee Transmittal Form <i>(Submit an original, and a duplicate for fee processing)</i> 2. <input type="checkbox"/> Applicant claims small entity status. See 37 CFR 1.27. 3. <input checked="" type="checkbox"/> Specification [Total Pages 34] <i>(preferred arrangement set forth below)</i> - Descriptive title of the Invention - Cross References to Related Applications - Statement Regarding Fed sponsored R & D Invention - Reference to Microfiche Appendix - Background of the Invention - Brief Summary of the Invention - Brief Description of the Drawings <i>(if filed)</i> - Detailed Description - Claim(s) - Abstract of the Disclosure 4. <input checked="" type="checkbox"/> Drawing(s) (35 USC 113) [Total Sheets 2] 5. <input checked="" type="checkbox"/> Oath or Declaration [Total Pages 4] a. <input checked="" type="checkbox"/> Newly executed (original or copy) b. <input type="checkbox"/> Copy from a prior application (37 CFR 1.63(d)) <i>(for continuation/divisional with Box 17 completed)</i> i. <input type="checkbox"/> DELETION OF INVENTOR(S) Signed statement attached deleting inventor(s) named in the prior application, see 37 CFR 1.63(d)(2) and 1.33(b). 6. <input type="checkbox"/> Application Data Sheet. See 37 CFR 1.76		7. <input type="checkbox"/> CD-ROM or CD-R in duplicate, large table or Computer Program (Appendix) 8. Nucleotide and/or Amino Acid Sequence Submission <i>(if applicable, all necessary)</i> a. <input type="checkbox"/> Computer Readable Form (CRF) b. <input type="checkbox"/> Specification Sequence Listing on: i. <input type="checkbox"/> CD ROM or CD-R (2 copies); or ii. <input type="checkbox"/> paper c. <input type="checkbox"/> Statement verifying identity of above copies <div style="border: 1px solid black; padding: 5px; margin-top: 5px;"> Accompanying Application Parts 9. <input type="checkbox"/> Assignment Papers (cover sheet & document(s)) 10. <input type="checkbox"/> 37 CFR 3.73(b) Statement <input type="checkbox"/> Power of Attorney <i>(when there is an assignee)</i> 11. <input type="checkbox"/> English Translation Document <i>(if applicable)</i> 12. <input type="checkbox"/> Information Disclosure <input type="checkbox"/> Copies of IDS Statement (IDS)/PTO-1449 Citations 13. <input type="checkbox"/> Preliminary Amendment 14. <input checked="" type="checkbox"/> Return Receipt Postcard (MPEP 503) <i>(Should be specifically itemized)</i> 15. <input type="checkbox"/> Certified Copy of Priority Document(s) <i>(if foreign priority is claimed)</i> 16. <input checked="" type="checkbox"/> Other Check for \$1,092.00. </div>																																					
17. If a CONTINUING APPLICATION, check appropriate box and supply the requisite information below and in a preliminary amendment, or in an Application Data Sheet under 37 CFR 1.76: <input type="checkbox"/> Continuation <input type="checkbox"/> Divisional <input type="checkbox"/> Continuation-in-part (CIP) of prior application No. _____, filed _____ Prior application Information: Examiner _____ Group/Art Unit: _____ For CONTINUING OR DIVISIONAL APPS only: The entire disclosure of the prior application, from which an oath or declaration is supplied under Box 5b, is considered a part of the disclosure of the accompanying continuation or divisional application and is hereby incorporated by reference. The incorporation can only be relied upon when a portion has been inadvertently omitted from the submitted application parts.																																							
18. CORRESPONDENCE ADDRESS <div style="text-align: center; margin-bottom: 5px;"> 30223 </div> <input type="checkbox"/> Customer Number or Bar Code Label <i>(Insert Customer No. or Attach bar code label here)</i> or <input type="checkbox"/> New correspondence address below																																							
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 20%;">NAME</td> <td colspan="3">Harold N. Wells</td> </tr> <tr> <td>ADDRESS</td> <td colspan="3">Jenkins & Gilchrist</td> </tr> <tr> <td></td> <td colspan="3">225 West Washington Street, Suite 2600</td> </tr> <tr> <td>CITY</td> <td>Chicago</td> <td>STATE</td> <td>IL</td> </tr> <tr> <td></td> <td></td> <td>ZIP CODE</td> <td>60606-3418</td> </tr> <tr> <td>COUNTRY</td> <td>USA</td> <td>TELEPHONE</td> <td>(312) 425-8561</td> </tr> <tr> <td></td> <td></td> <td>FAX</td> <td>(312) 425-3909</td> </tr> <tr> <td>Name (Print/Type)</td> <td>Harold N. Wells</td> <td>Registration No. (Attorney/Agent)</td> <td>26,044</td> </tr> <tr> <td>Signature</td> <td colspan="2"><i>Harold N. Wells</i></td> <td>Date August 19, 2003</td> </tr> </table>				NAME	Harold N. Wells			ADDRESS	Jenkins & Gilchrist				225 West Washington Street, Suite 2600			CITY	Chicago	STATE	IL			ZIP CODE	60606-3418	COUNTRY	USA	TELEPHONE	(312) 425-8561			FAX	(312) 425-3909	Name (Print/Type)	Harold N. Wells	Registration No. (Attorney/Agent)	26,044	Signature	<i>Harold N. Wells</i>		Date August 19, 2003
NAME	Harold N. Wells																																						
ADDRESS	Jenkins & Gilchrist																																						
	225 West Washington Street, Suite 2600																																						
CITY	Chicago	STATE	IL																																				
		ZIP CODE	60606-3418																																				
COUNTRY	USA	TELEPHONE	(312) 425-8561																																				
		FAX	(312) 425-3909																																				
Name (Print/Type)	Harold N. Wells	Registration No. (Attorney/Agent)	26,044																																				
Signature	<i>Harold N. Wells</i>		Date August 19, 2003																																				

Burden Hour Statement: This form is estimated to take 0.2 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, Mail Stop Patent Application, P.O. Box 1450, Alexandria, VA. 22313-1450.

08/19/03



Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

Approved for use through 09/30/98. OMB 0651-0032
Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

FEE TRANSMITTAL		Complete if Known																																																																																																																																																																													
		Application Number	Not Assigned																																																																																																																																																																												
		Filing Date	August 19, 2003																																																																																																																																																																												
		First Named Inventor	Michael J. Puglia																																																																																																																																																																												
		Group Art Unit	Not Assigned																																																																																																																																																																												
		Examiner Name	Not Assigned																																																																																																																																																																												
TOTAL AMOUNT OF PAYMENT (\$1,092.00)		Attorney Docket Number	55197-000016USPT																																																																																																																																																																												
METHOD OF PAYMENT (check one)		FEE CALCULATION (continued)																																																																																																																																																																													
1. <input checked="" type="checkbox"/> The Commissioner is hereby authorized to charge indicated fees and credit any over payments to: 10-0447/55197-000016USPT Deposit Account Number Jenkins & Gilchrist Deposit Account Name <input checked="" type="checkbox"/> Charge Any Additional Fee Required Under 37 CFR 1.16 and 1.17 <input type="checkbox"/> Charge the Issue Fee Set in 37 CFR 1.18 at the Mailing of the Notice of Allowance, 37 CFR 1.31(b)		3. ADDITIONAL FEES <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Large Fee Code</th> <th>Entity Fee (\$)</th> <th>Small Fee Code</th> <th>Entity Fee (\$)</th> <th>Fee Description</th> <th>Fee Paid</th> </tr> </thead> <tbody> <tr> <td>105</td> <td>130</td> <td>205</td> <td>65</td> <td>Surcharge - late filing fee or oath</td> <td></td> </tr> <tr> <td>127</td> <td>50</td> <td>227</td> <td>25</td> <td>Surcharge - late provisional filing or cover sheet</td> <td></td> </tr> <tr> <td>139</td> <td>130</td> <td>139</td> <td>130</td> <td>Non-English specification</td> <td></td> </tr> <tr> <td>147</td> <td>2,520</td> <td>147</td> <td>2,520</td> <td>For filing a request for reexamination</td> <td></td> </tr> <tr> <td>112</td> <td>920</td> <td>112</td> <td>920</td> <td>Requesting publication of SIR prior to Examiner action</td> <td></td> </tr> <tr> <td>113</td> <td>1,840</td> <td>113</td> <td>1,840</td> <td>Requesting publication of SIR after Examiner action</td> <td></td> </tr> <tr> <td>115</td> <td>110</td> <td>215</td> <td>55</td> <td>Extension for response within first month</td> <td></td> </tr> <tr> <td>116</td> <td>400</td> <td>216</td> <td>200</td> <td>Extension for response within second month</td> <td></td> </tr> <tr> <td>117</td> <td>920</td> <td>217</td> <td>460</td> <td>Extension for response within third month</td> <td></td> </tr> <tr> <td>118</td> <td>1,440</td> <td>218</td> <td>720</td> <td>Extension for response within fourth month</td> <td></td> </tr> <tr> <td>119</td> <td>310</td> <td>219</td> <td>155</td> <td>Notice of Appeal</td> <td></td> </tr> <tr> <td>120</td> <td>320</td> <td>220</td> <td>160</td> <td>Filing a brief in support of an appeal</td> <td></td> </tr> <tr> <td>121</td> <td>260</td> <td>221</td> <td>140</td> <td>Request for oral hearing</td> <td></td> </tr> <tr> <td>138</td> <td>1,510</td> <td>138</td> <td>1,510</td> <td>Petition to institute a public use proceeding</td> <td></td> </tr> <tr> <td>140</td> <td>110</td> <td>240</td> <td>55</td> <td>Petition to revive unavoidably abandoned application</td> <td></td> </tr> <tr> <td>141</td> <td>1,280</td> <td>241</td> <td>640</td> <td>Petition to revive unintentionally abandoned application</td> <td></td> </tr> <tr> <td>142</td> <td>1,280</td> <td>242</td> <td>640</td> <td>Utility issue fee (or reissue)</td> <td></td> </tr> <tr> <td>143</td> <td>460</td> <td>243</td> <td>230</td> <td>Design issue fee</td> <td></td> </tr> <tr> <td>144</td> <td>620</td> <td>244</td> <td>310</td> <td>Plant issue fee</td> <td></td> </tr> <tr> <td>122</td> <td>130</td> <td>122</td> <td>130</td> <td>Petitions to the Commissioner</td> <td></td> </tr> <tr> <td>123</td> <td>50</td> <td>123</td> <td>50</td> <td>Petitions related to provisional applications</td> <td></td> </tr> <tr> <td>126</td> <td>180</td> <td>126</td> <td>180</td> <td>Submission of Information Disclosure Sheet</td> <td></td> </tr> <tr> <td>561</td> <td>40</td> <td>561</td> <td>40</td> <td>Recording each patent assignment per property (times number of properties)</td> <td></td> </tr> <tr> <td>146</td> <td>740</td> <td>246</td> <td>370</td> <td>Filing a submission after final rejection (37 CFR 1.129(a))</td> <td></td> </tr> <tr> <td>149</td> <td>740</td> <td>249</td> <td>370</td> <td>For each additional invention to be examined (37 CFR 1.129(b))</td> <td></td> </tr> <tr> <td colspan="2"></td> <td colspan="2">Other fee (specify) _____</td> </tr> <tr> <td colspan="2"></td> <td colspan="2">Other fee (specify) _____</td> </tr> <tr> <td colspan="2"></td> <td colspan="2" style="text-align: right;">SUBTOTAL (3) (\$) _____</td> </tr> <tr> <td colspan="2"></td> <td colspan="2" style="text-align: right;">* Reduced by Basic Filing Fee Paid</td> </tr> </tbody> </table>		Large Fee Code	Entity Fee (\$)	Small Fee Code	Entity Fee (\$)	Fee Description	Fee Paid	105	130	205	65	Surcharge - late filing fee or oath		127	50	227	25	Surcharge - late provisional filing or cover sheet		139	130	139	130	Non-English specification		147	2,520	147	2,520	For filing a request for reexamination		112	920	112	920	Requesting publication of SIR prior to Examiner action		113	1,840	113	1,840	Requesting publication of SIR after Examiner action		115	110	215	55	Extension for response within first month		116	400	216	200	Extension for response within second month		117	920	217	460	Extension for response within third month		118	1,440	218	720	Extension for response within fourth month		119	310	219	155	Notice of Appeal		120	320	220	160	Filing a brief in support of an appeal		121	260	221	140	Request for oral hearing		138	1,510	138	1,510	Petition to institute a public use proceeding		140	110	240	55	Petition to revive unavoidably abandoned application		141	1,280	241	640	Petition to revive unintentionally abandoned application		142	1,280	242	640	Utility issue fee (or reissue)		143	460	243	230	Design issue fee		144	620	244	310	Plant issue fee		122	130	122	130	Petitions to the Commissioner		123	50	123	50	Petitions related to provisional applications		126	180	126	180	Submission of Information Disclosure Sheet		561	40	561	40	Recording each patent assignment per property (times number of properties)		146	740	246	370	Filing a submission after final rejection (37 CFR 1.129(a))		149	740	249	370	For each additional invention to be examined (37 CFR 1.129(b))				Other fee (specify) _____				Other fee (specify) _____				SUBTOTAL (3) (\$) _____				* Reduced by Basic Filing Fee Paid	
Large Fee Code	Entity Fee (\$)	Small Fee Code	Entity Fee (\$)	Fee Description	Fee Paid																																																																																																																																																																										
105	130	205	65	Surcharge - late filing fee or oath																																																																																																																																																																											
127	50	227	25	Surcharge - late provisional filing or cover sheet																																																																																																																																																																											
139	130	139	130	Non-English specification																																																																																																																																																																											
147	2,520	147	2,520	For filing a request for reexamination																																																																																																																																																																											
112	920	112	920	Requesting publication of SIR prior to Examiner action																																																																																																																																																																											
113	1,840	113	1,840	Requesting publication of SIR after Examiner action																																																																																																																																																																											
115	110	215	55	Extension for response within first month																																																																																																																																																																											
116	400	216	200	Extension for response within second month																																																																																																																																																																											
117	920	217	460	Extension for response within third month																																																																																																																																																																											
118	1,440	218	720	Extension for response within fourth month																																																																																																																																																																											
119	310	219	155	Notice of Appeal																																																																																																																																																																											
120	320	220	160	Filing a brief in support of an appeal																																																																																																																																																																											
121	260	221	140	Request for oral hearing																																																																																																																																																																											
138	1,510	138	1,510	Petition to institute a public use proceeding																																																																																																																																																																											
140	110	240	55	Petition to revive unavoidably abandoned application																																																																																																																																																																											
141	1,280	241	640	Petition to revive unintentionally abandoned application																																																																																																																																																																											
142	1,280	242	640	Utility issue fee (or reissue)																																																																																																																																																																											
143	460	243	230	Design issue fee																																																																																																																																																																											
144	620	244	310	Plant issue fee																																																																																																																																																																											
122	130	122	130	Petitions to the Commissioner																																																																																																																																																																											
123	50	123	50	Petitions related to provisional applications																																																																																																																																																																											
126	180	126	180	Submission of Information Disclosure Sheet																																																																																																																																																																											
561	40	561	40	Recording each patent assignment per property (times number of properties)																																																																																																																																																																											
146	740	246	370	Filing a submission after final rejection (37 CFR 1.129(a))																																																																																																																																																																											
149	740	249	370	For each additional invention to be examined (37 CFR 1.129(b))																																																																																																																																																																											
		Other fee (specify) _____																																																																																																																																																																													
		Other fee (specify) _____																																																																																																																																																																													
		SUBTOTAL (3) (\$) _____																																																																																																																																																																													
		* Reduced by Basic Filing Fee Paid																																																																																																																																																																													
2. <input checked="" type="checkbox"/> Payment Enclosed: <input checked="" type="checkbox"/> Check <input type="checkbox"/> Money Order <input type="checkbox"/> Other																																																																																																																																																																															
FEE CALCULATION (fees effective 11/10/98)																																																																																																																																																																															
1. FILING FEE <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Large Entity Fee Code</th> <th>Entity Fee (\$)</th> <th>Small Entity Fee Code</th> <th>Entity Fee (\$)</th> <th>Fee Description</th> <th>Fee Paid</th> </tr> </thead> <tbody> <tr> <td>101</td> <td>740</td> <td>201</td> <td>370</td> <td>Utility filing fee</td> <td>750</td> </tr> <tr> <td>106</td> <td>330</td> <td>206</td> <td>165</td> <td>Design filing fee</td> <td></td> </tr> <tr> <td>107</td> <td>510</td> <td>207</td> <td>255</td> <td>Plant filing fee</td> <td></td> </tr> <tr> <td>108</td> <td>740</td> <td>208</td> <td>370</td> <td>Reissue filing fee</td> <td></td> </tr> <tr> <td>114</td> <td>160</td> <td>214</td> <td>80</td> <td>Provisional filing fee</td> <td></td> </tr> <tr> <td colspan="5" style="text-align: right;">SUBTOTAL (1)</td> <td>(\$) 750</td> </tr> </tbody> </table>		Large Entity Fee Code	Entity Fee (\$)	Small Entity Fee Code	Entity Fee (\$)	Fee Description	Fee Paid	101	740	201	370	Utility filing fee	750	106	330	206	165	Design filing fee		107	510	207	255	Plant filing fee		108	740	208	370	Reissue filing fee		114	160	214	80	Provisional filing fee		SUBTOTAL (1)					(\$) 750																																																																																																																																				
Large Entity Fee Code	Entity Fee (\$)	Small Entity Fee Code	Entity Fee (\$)	Fee Description	Fee Paid																																																																																																																																																																										
101	740	201	370	Utility filing fee	750																																																																																																																																																																										
106	330	206	165	Design filing fee																																																																																																																																																																											
107	510	207	255	Plant filing fee																																																																																																																																																																											
108	740	208	370	Reissue filing fee																																																																																																																																																																											
114	160	214	80	Provisional filing fee																																																																																																																																																																											
SUBTOTAL (1)					(\$) 750																																																																																																																																																																										
2. CLAIMS <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Large Entity Fee Code</th> <th>Entity Fee (\$)</th> <th>Small Entity Fee Code</th> <th>Entity Fee (\$)</th> <th>Fee Description</th> <th>Fee Paid</th> </tr> </thead> <tbody> <tr> <td colspan="6">Total Claims 39 - 20 = 19 Extra Fee from below 18 = \$342.00</td> </tr> <tr> <td colspan="6">Independent 2 - 3 = 0 Extra Fee from below 84 = \$0.00</td> </tr> <tr> <td colspan="6">Multiple Dependent Claims 0 Extra Fee from below 280 = \$0</td> </tr> <tr> <td>103</td> <td>18</td> <td>203</td> <td>9</td> <td>Claims in excess of 20</td> <td></td> </tr> <tr> <td>102</td> <td>84</td> <td>202</td> <td>42</td> <td>Independent claims in excess of 3</td> <td></td> </tr> <tr> <td>104</td> <td>280</td> <td>204</td> <td>140</td> <td>Multiple dependent claim</td> <td></td> </tr> <tr> <td>109</td> <td>84</td> <td>209</td> <td>42</td> <td>Reissue independent claims over original patent</td> <td></td> </tr> <tr> <td>110</td> <td>18</td> <td>210</td> <td>9</td> <td>Reissue claims in excess of 20 and over original patent</td> <td></td> </tr> <tr> <td colspan="5" style="text-align: right;">SUBTOTAL (2)</td> <td>(\$) 1,092.00</td> </tr> </tbody> </table>		Large Entity Fee Code	Entity Fee (\$)	Small Entity Fee Code	Entity Fee (\$)	Fee Description	Fee Paid	Total Claims 39 - 20 = 19 Extra Fee from below 18 = \$342.00						Independent 2 - 3 = 0 Extra Fee from below 84 = \$0.00						Multiple Dependent Claims 0 Extra Fee from below 280 = \$0						103	18	203	9	Claims in excess of 20		102	84	202	42	Independent claims in excess of 3		104	280	204	140	Multiple dependent claim		109	84	209	42	Reissue independent claims over original patent		110	18	210	9	Reissue claims in excess of 20 and over original patent		SUBTOTAL (2)					(\$) 1,092.00																																																																																																																		
Large Entity Fee Code	Entity Fee (\$)	Small Entity Fee Code	Entity Fee (\$)	Fee Description	Fee Paid																																																																																																																																																																										
Total Claims 39 - 20 = 19 Extra Fee from below 18 = \$342.00																																																																																																																																																																															
Independent 2 - 3 = 0 Extra Fee from below 84 = \$0.00																																																																																																																																																																															
Multiple Dependent Claims 0 Extra Fee from below 280 = \$0																																																																																																																																																																															
103	18	203	9	Claims in excess of 20																																																																																																																																																																											
102	84	202	42	Independent claims in excess of 3																																																																																																																																																																											
104	280	204	140	Multiple dependent claim																																																																																																																																																																											
109	84	209	42	Reissue independent claims over original patent																																																																																																																																																																											
110	18	210	9	Reissue claims in excess of 20 and over original patent																																																																																																																																																																											
SUBTOTAL (2)					(\$) 1,092.00																																																																																																																																																																										

SUBMITTED BY		Complete (if applicable)	
Typed or Printed Name	Harold N. Wells	Reg. Number	26,044
Signature		Date	8/19/03
		Deposit Act. User ID	10-0447/55197-00016USPT